



ON-LINE FIG 1. Maximal relative cerebral blood flow of papillomas, atypical papillomas, and carcinomas by using ASL. Maximal rCBF is normalized to the contralateral gray matter. Two papillomas and 2 atypical papillomas had the same value (1.1) and share the same point in each row.

On-line Table 1: Histopathologic data and perfusion values using arterial spin-labeling and dynamic susceptibility contrast perfusion-weighted imaging

Patient	Age (yr/mo)	Diagnosis	Arborescent Microvascular Architecture		Endothelial Capillary Proliferation	Vascular Necrosis	Vessels/0.5 mm ²	ASL CBF	ASL CBFmax	ASL rCBF	ASL rCBFmax	DSC rCBV	DSC rCBVmax	DSC rCBF	DSC rCBFmax
			Yes	No											
1	1/1	Papilloma	Yes	No	No	No	54	33	59	0.3	0.5	2.5	3.2	0.4	1.0
2	1/9	Papilloma	Yes	No	No	No	36	42	93	0.5	1.1	—	—	—	—
3	5/11	Papilloma	Yes	No	No	No	47	73	93	0.6	0.8	—	—	—	—
4	0/7	Papilloma	Yes	No	No	No	96 ^a	31	87	0.4	1.1	—	—	—	—
5	0/9	Atypical papilloma	Yes	No	No	No	22	10	15	0.4	0.6	—	—	—	—
6	1/5	Atypical papilloma	Yes	No	No	Yes	54	45	110	0.4	1.1	3.2	8.1	1.1	2.5
7	0/8	Atypical papilloma	Yes/No	No	No	Yes	53	51	111	0.5	1.1	1.2	3.9	0.7	1.3
8	3/7	Carcinoma	No	Yes	Yes	Yes	60	90	172	1.4	2.7	5.8	12.6	1.9	4.2
9	14/1	Carcinoma	No	Yes	Yes	Yes	96	140	306	1.9	4.1	—	—	—	—
10	2/1	Carcinoma	Yes	No	No	Yes	25	—	—	—	—	3.6	7.0	1.0	1.8
11	2/2	Carcinoma	No	Yes	Yes	Yes	90	—	—	—	—	4.6	8.4	1.1	1.9
12	2/3	Carcinoma	No	Yes	Yes	Yes	114	—	—	—	—	2.1	4.5	0.9	2.0
13	16/7	Carcinoma ^b	No	No	No	No	43	—	—	—	—	1.7	2.5	0.5	0.8

Note:—Values with “max” indicate value is measured with a ROI placed in the most perfused area of the lesion.

^a Probably overestimated due to crushing artifacts.

^b Very different morphology with calcifications and hyalinized vessels.

On-line Table 2: Statistical significance using the Mann-Whitney test

	Vessels/0.5 mm ²	ASL CBF	ASL CBFmax	ASL rCBF	ASL rCBFmax	DSC rCBV	DSC rCBVmax	DSC rCBF	DSC rCBFmax
<i>P</i> value ^a	.16 ^b	.056	.056	.028	.056	.393	.571	.429	.786

^a Carcinoma vs (papilloma + atypical papilloma).

^b Excluding patient 4.